

Application No.: 10/708,970

Applicant: Karl Peng

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AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (previously presented) A dual flush toilet system for selectively flushing solid waste or liquid waste, said dual flush toilet system comprising:
 - a water tank with a discharge opening on the bottom of said water tank for storing and receiving water;
 - a toilet bowl located below said water tank and connected to said water tank by said discharge opening;
 - a spud having an elongated upstanding body with a lower end secured on said discharge opening of said water tank;
 - a flush valve comprising a tubular element upstanding and extending above the water surface in said water tank and slidably engaged with said spud, a float chamber attached on the lower portion of said tubular element, and a ring attached at the upper portion of said tubular element; and
 - engaging means connecting said flush valve and a support for engaging the movement of said flush valve to perform a full flush operation or a partial flush operation to flush wastes in said toilet bowl.
2. (previously presented) The dual flush toilet system according to claim 1, wherein said engaging means engages said flush valve with both vertical travels and rotations about a vertical axis.
3. (previously presented) The dual flush toilet system according to claim 1, wherein said engaging means comprises protrusion means and a groove member with a V-shaped groove recessed in said groove member, wherein said protrusion means is slidably engaged with said V-shaped groove.
4. (previously presented) The dual flush toilet system according to claim 1, further comprising limit means for limiting the vertical travel of said flush valve, wherein said limit means engages the interactions between said flush valve and a support.
5. (previously presented) The dual flush toilet system according to claim 4, wherein said limit means comprises a limit member, a stop member, and adjustable means for adjusting the vertical travel limit of said flush valve, wherein said stop member selectively engages with said limit member.
6. (currently amended) The dual flush toilet system according to claim 1, further comprising load means for ~~selectively engaging and~~ applying a downward force on said flush valve, wherein said load means engages said flush valve ~~with a support~~ through interactive actions with said flush valve.
7. (canceled)

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8. (canceled)

9. (previously presented) The dual flush toilet system according to claim 1, further comprising load means attached to float means for selectively engaging and applying a downward force on said flush valve in a flush operation, wherein said load means engages said flush valve with float means for controlling the timing to push said flush valve downward to close said discharge opening.

10. (previously presented) The dual flush toilet system according to claim 9, wherein said load means comprises adjustable means for adjusting the timing to apply a downward load to said flush valve.

11. (currently amended) The dual flush toilet system according to claim 9, wherein said float means has a specific gravity smaller than the specific gravity of water and ~~generally moves responding to the rise and fall of the water level in said water tank.~~

12. (canceled)

13. (canceled)

14. (canceled)

15. (canceled)

16. (canceled)

17. (canceled)

18. (canceled)

19. (canceled)

20. (canceled)

21. (canceled)

22. (canceled)

23. (canceled)

24. (canceled)

25. (canceled)

26. (canceled)

27. (canceled)

28. (canceled)

29. (canceled)

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30. (canceled)

31. (canceled)

32. (canceled)

33. (canceled)

34. (canceled)

35. (new) The dual flush toilet system according to claim 9, wherein said float means generally moves responding to the rise and fall of the water level in said water tank.

36. (new) The dual flush toilet system according to claim 9, wherein said float means has an air chamber.

37. (new) The dual flush toilet system according to claim 9, wherein said float means is partially submerged in the water of said water tank.

38. (new) A dual flush toilet system for selectively flushing solid waste or liquid waste, said dual flush toilet system comprising:

a water tank with a discharge opening on the bottom of said water tank for storing and receiving water;

a toilet bowl located below said water tank and connected to said water tank by said discharge opening;

a spud having an elongated upstanding body with a lower end secured on said discharge opening of said water tank;

a flush valve comprising a tubular element upstanding and extending above the water surface in said water tank and slidably engaged with said spud, a float chamber attached on the lower portion of said tubular element, and a ring attached at the upper portion of said tubular element;

load means for applying a downward force on said flush valve, wherein said load means engages said flush valve through interactive actions with said flush valve; and

engaging means for selectively engaging said flush valve to perform a full flush operation or a partial flush operation to flush wastes in said toilet bowl.

39. (new) The dual flush toilet system according to claim 38, wherein said engaging means comprises protrusion means and a groove member with a V-shaped groove recessed in said groove member, wherein said protrusion means is slidably engaged with said V-shaped groove.

40. (new) A dual flush toilet system for selectively flushing solid waste or liquid waste, said dual flush toilet system comprising:

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a water tank with a discharge opening on the bottom of said water tank for storing and receiving water;

a toilet bowl located below said water tank and connected to said water tank by said discharge opening;

a spud having an elongated upstanding body with a lower end secured on said discharge opening of said water tank;

a flush valve comprising a tubular element upstanding and extending above the water surface in said water tank and slidably engaged with said spud, a float chamber attached on the lower portion of said tubular element, and a ring attached at the upper portion of said tubular element;

limit means for limiting the vertical travel of said flush valve, wherein said limit means engages the interactions between said flush valve and a support; and

engaging means for selectively engaging said flush valve to perform a full flush operation or a partial flush operation to flush wastes in said toilet bowl.

41. (new) The dual flush toilet system according to claim 40, wherein said engaging means comprises protrusion means and a groove member with a V-shaped groove recessed in said groove member, wherein said protrusion means is slidably engaged with said V-shaped groove.